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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/977,929	10/15/2001	Sharon L. Book	41482/29227	9089
21888	7590 06/02/2005		EXAMINER	
THOMPSON COBURN, LLP ONE US BANK PLAZA			ANTHONY, JOSEPH DAVID	
SUITE 3500			ART UNIT	PAPER NUMBER
ST LOUIS,	MO 63101		1714	

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		09/977,929	BOOK ET AL.				
		Examiner	Art Unit				
		Joseph D. Anthony	1714				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence addre	ess			
THE - External form - If the - If NO - Failur Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	unication.			
Status							
1)⊠ 2a) <u></u> 3) <u></u>							
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-48 is/are pending in the application. 4a) Of the above claim(s) 9-18 and 27-48 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-8 and 19-26 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
12) <u></u> a)∣	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Sta	age			
2) Notice	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	52)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 19-20 are rejected under 35 U.S.C. 102(b) as being directly anticipated by Metler et al. U.S. Patent Number 3,246,692.

Metler et al teach a process for preventing the unintentional expulsion of formation fluids from a subterranean formation containing the same at pressures greater than atmospheric into a well penetrating such formation. The process comprises the steps of introducing through the well to a position adjacent the formation containing formation fluids, an aqueous liquid having a density sufficient to provide a hydrostatic pressure on said formation of a magnitude sufficient to prevent expulsion of said formation fluids therefrom into said well, said aqueous liquid comprising a mixture of water and a mixture of at least two solutes selected from the group consisting of the mono-, di-, and trisodium and the mono-, di-, and tripotassium salts of orthophosphoric acid, the- amounts of the solutes selected being such as to provide said aqueous liquid with a density greater than the densities of solutions of the selected solutes individually at the same conditions, and maintaining said aqueous liquid within said well adjacent said formation, see claim 1. Applicants' claims are deemed to

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be directly anticipated over the patent's teaching set forth in column 3, lines 40 to column 5, line 16.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-8 and 21-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Metler et al. U.S. Patent Number 3,246,692.

Metler et al. has been described above and differs from applicant's claimed invention in the following ways: 1) there is no direct teaching (i.e. by way of an example) to a mixed high-density salt solution that actually comprises and acid such as phosphoric acid or citric acid, and 2) there is no direct teaching (i.e. by way of an example) to a mixed high-density salt solution that actually comprises applicants' particularly claimed phosphate salt species within applicants' particular claimed concentration ranges.

It would have been obvious to one having ordinary skill in the art to use the broad disclosure of Metler et al at column 5, lines 25-54 as motivation to actually make Metler et al's mixed salt solutions by reacting orthophosphoric acid with sodium and/or potassium hydroxide. Such a reaction would result in a high-

density salt solution that would actually comprise phosphoric acid and sodium and/or potassium phosphate salts. In the alternative, it would have been obvious to add citric acid to Metler et al's high-density salt solutions since citric acid is a known corrosion inhibitor, see column 5, lines 53-54 of Metler et al...

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It would also have been obvious to one having ordinary skill in the art to use the broad disclosure of Metler et al as strong motivation to make high-density salt solutions that actually comprise applicants' particularly claimed phosphate salt species within applicants' particular claimed concentration ranges. In any case, applicant has set forth no showing of any superior and unexpected results that may result from applicants' particularly claimed high-density phosphate salt solutions.

Prior-Art Cited But Not Applied

5. Any prior-art reference which is cited on FORM PTO-892 but not applied, is cited only to show the general state of the prior-art at the time of applicant's invention.

Examiner Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Joseph D. Anthony whose telephone number is (571) 272-1117. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on (571) 272-1119. The centralized FAX machine number is (703) 872-9306. All other papers received by FAX will be

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treated as Official communications and cannot be immediately handled by the

Examiner.

Joseph D. Anthony Primary Patent Examiner

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